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SUPERFUND DIVISION

February 2, 2012

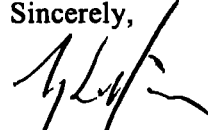
Mr. Jason Gunter
Remedial Project Manager
U.S. Environmental Protection Agency
Region 7 - Superfund Branch
901 North 5th Street
Kansas City, KS 66101

Re: The Doe Run Company – Federal Mine Tailings Site Monthly Progress Report

Dear Mr. Gunter:

As required by Article XVII, Paragraph 73 of the Administrative Order on Consent (Docket No. VII-97-F-0009) for the referenced project and on behalf of The Doe Run Company, the progress report for the period December 1, 2011 through December 30, 2011 is enclosed. If you have any questions or comments, please call me at 573-638-5020 or Mark Nations at 573-518-0800.

Sincerely,



Ty L. Morris, P.E., R.G.
Vice President

TLM/jms

Enclosure

c: Mark Nations – TDRC
Matt Wohl – TDRC (electronic only)
Steve Batts – TDRC (electronic only)
Martin Kator – MDNR - DSP
Kathy Rangen – MDNR - HWP
Adam Nanney – Barr Engineering

40383987



Superfund

Federal Mine Tailings Site
Park Hills, Missouri
Monthly Progress Report
Period: December 1, 2011 – December 30, 2011

1. Actions Performed or Completed This Period:

- a. Work in the Former Chat Pile Area continued to focus on the task of placing stripped materials from other portions of the site. This work is primarily focusing on placing stripped materials from the Shaw Branch Creek Area in the southern portion of this area. As of the end of the period, work on this task was continuing.
- b. Work at the site also continued in the Shaw Branch Creek Area upstream of the trestle. This work focused on stripping the mine waste and contaminated materials from the sedimentation basin and drainage channels located between the trestle and the dam. As of the end of the period, approximately 95 percent of the visible mine waste had been stripped from this area and taken to the Former Chat Pile Area for disposal.

Once all of the visible mine waste was stripped, the remaining soils in the stripped area were analyzed with an XRF to determine if the soils had lead levels exceeding 600 ppm. Following completion of the sampling activities, work began on the task of stripping the soils from the areas that had been identified as having lead levels exceeding 600 ppm. As of the end of the period, work on this task had begun and a majority of the areas identified as having lead levels exceeding 600 ppm had been excavated further. However, due to a series of rainfall events in the region, the sedimentation basin had filled with water and stripping activities have been slowed.

- c. Work in the Shaw Branch Creek Area between the trestle and Missouri Highway 32 also began on the task of stripping mine waste and contaminated materials from this area. As of the end of the period, a majority of the visible mine waste had been stripped from this area and taken to the Former Chat Pile Area for disposal.

Once all of the visible mine waste was stripped, the remaining soils in the stripped area were analyzed with an XRF to determine if the soils had lead levels exceeding 600 ppm. Following completion of the sampling activities, work began on the task of stripping the soils from the areas that had been identified as having lead levels exceeding 600 ppm. As of the end of the period, work on this task had begun and a majority of the areas identified as having lead levels exceeding 600 ppm had been excavated further. However, due to a series of rainfall events in the region, the area filled with water and stripping activities have been slowed.

- d. In preparation for starting work in the ORV Riding Area, work began on the task of stockpiling rock onsite. This work is focusing on stockpiling trail rock and Type 2 riprap. These two rock types are being stockpiled in an area to the east of the Shaft Rock Stockpile. As of the end of the period, work on this task had just begun. It should be noted that a haul road will need to be established from the stockpile area to the ORV Riding Area. MDNR-DSP is currently discussing where they would like that haul road placed.

2. Data and Results Received This Period:

- a. MDNR reported two readings for the month of November for the air monitor located near the ORV loading area at St. Joe State Park. The readings were 0.0033 $\mu\text{g}/\text{m}^3$ lead on 11/26/11 and 0.0080 $\mu\text{g}/\text{m}^3$ lead on 11/29/11. No supporting data was provided for these results. However, a graph of the rolling average lead concentrations from January 2010 through September 2011 and a graph of the daily average lead concentrations from January 2010 through October 2011 were provided.

- b. MDNR also completed NPDES sampling activities in accordance with the current permit. However, during the months of October, November, and December no discharges occurred at outfall #002, which is located at the culvert under Highway 32 in the Shaw Branch Creek Area. The monthly sampling reports for October, November, and December are included with this report. .

3. Planned Activities for Next Period:

- a. Work will continue on the task of placing stripped mine waste and contaminated soil from other portions of the site in the Former Chat Pile Area.
- b. Work will continue on the task of stockpiling Trail Rock and Type 2 Riprap for use in the ORV Riding Area.
- c. Work will begin on the task of constructing the East ORV Drainage Channel and the southern portion of the Main Drainage Channel in the ORV Riding Area.
- d. Work will begin on the task of identifying the trails in the southern portion of the ORV Riding Area that are to be closed, left open, or left open and covered

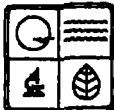
4. Changes in Personnel:

- a. None

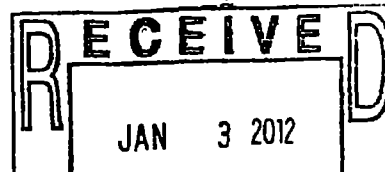
5. Issues or Problems Encountered and the Resolution:

- a. None

End of Monthly Progress Report



MISSOURI DEPARTMENT OF NATURAL RESOURCES
NPDES MONITORING REPORT FORM
Monthly Sampling - Monthly Reporting



MDNR, ST. JOE STATE PARK MO-0097993 ST. FRANCOIS COUNTY	Owner Address: <u>Missouri Dept. of Natural Res.</u> <u>PO Box 176</u> <u>Jefferson City, Missouri 65102</u>	Address Change for Owner: <input type="checkbox"/> Billing <input type="checkbox"/> Facility Address. <u>MISSOURI STATE PARKS</u> <u>DIRECTOR'S OFFICE</u> <u>MDNR/St. Joe State Park</u> <u>2800 Pimville Road</u> <u>Park Hills, Missouri 63601</u>
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THIS REPORT COVERS THE PERIOD: Please place an "X" in the box beneath the appropriate month reporting.

January	February	March	April	May	June	July	August	September	October	November	December
									X		
NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input checked="" type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>	NO DISCHARGE <input type="checkbox"/>
Due Feb. 28 th	Due March 28 th	Due April 28 th	Due May 28 th	Due June 28 th	Due July 28 th	Due August 28 th	Due Sep. 28 th	Due Oct. 28 th	Due Nov. 28 th	Due Dec. 28 th	Due Jan. 28 th

Samples Collected By: S McCain	Phone: 573 431.1069	Analyses Performed by (LAB): Environmental Analysis South, Inc., 4000 East Jackson Blvd, Jackson, MO 63755	Phone 573 204 8817
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Outfall #: 002					SAMPLE 1		SAMPLE 2				
PARAMETER	UNIT	PERMITTED FINAL LIMITS			DATE COLLECTED	ANALYSIS DATE	DATE COLLECTED	ANALYSIS DATE	AVERAGE OF SAMPLES IF TAKEN IN SAME MONTH	SAMPLE TYPE	ANALYTICAL METHOD
		DAILY MAX	WEEKLY MAX	MONTHLY AVG	TIME COLLECTED		TIME COLLECTED				
Cadmium, TR	ug/L	17		17						Grab	
FLOW	MGD	-		-						24 hr estimate	
Lead, TR	ug/L	29		29						Grab	
PH	SU	---		---						Grab	
Settleable Solids	mL/L	10		10						Grab	
Total Suspended Solids	mg/L	10		10						Grab	

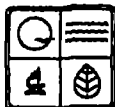
SIGNATURE AND TITLE OF INDIVIDUAL PREPARING REPORT <i>Sandra L. McCain</i>	DATE 11/30/2011	PHONE NUMBER 573.431.1069	EMAIL ADDRESS st.joe.state.park@dnr.mo.gov
SIGNATURE OF OWNER OR DESIGNEE APPROVING REPORT <i>Sandra L. McCain</i>	DATE 11/30/2011	PHONE NUMBER 573.431.1069	EMAIL ADDRESS st.joe.state.park@dnr.mo.gov

(IF VIOLATION OCCURRED, PLEASE ATTACH EXPLANATION OF POSSIBLE CAUSE)

Return form to: Missouri Department of Natural Resources
Southeast Regional Office
2155 NorthWestwood Blvd
Poplar Bluff MO 63901

* - Monitor and Report

*** - pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.5-9.0 pH units.



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Monthly Sampling – Monthly Reporting

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Samples Collected By: S. McCain				Phone: 573.431.1069		Analyses Performed by (LAB): Environmental Analysis South, Inc., 4000 East Jackson Blvd, Jackson, MO 63755				Phone: 573.204.8817	
Outfall # 002					SAMPLE 1		SAMPLE 2				
PARAMETER	UNIT	PERMITTED FINAL LIMITS			DATE COLLECTED	ANALYSIS DATE	DATE COLLECTED	ANALYSIS DATE	AVERAGE OF SAMPLES IF TAKEN IN SAME MONTH	SAMPLE TYPE	ANALYTICAL METHOD
		DAILY MAX	WEEKLY MAX	MONTHLY AVG	TIME COLLECTED		TIME COLLECTED				
Cadmium, TR	ug/L	17		17						Grab	
FLOW	MGD	*		*						24 hr estimate	
Lead, TR	ug/L	29		29						Grab	
PH	SU	***		***						Grab	
Settleable Solids	mL/L	10		10						Grab	
Total Suspended Solids	mg/L	10		10						Grab	
SIGNATURE AND TITLE OF INDIVIDUAL PREPARING REPORT <i>Sandra McCain</i>					DATE 12/01/2011		PHONE NUMBER 573.431.1069		EMAIL ADDRESS: st.joe.state.park@dnr.mo.gov		
SIGNATURE OF OWNER OR DESIGNEE APPROVING REPORT <i>Sandra McCain</i>					DATE 12/01/2011		PHONE NUMBER 573.431.1069		EMAIL ADDRESS: st.joe.state.park@dnr.mo.gov		

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PH	SU	***		***						Grab	
Settleable Solids	mL/L	10		10						Grab	
Total Suspended Solids	mg/L	10		10						Grab	
SIGNATURE AND TITLE OF INDIVIDUAL PREPARING REPORT <i>Sandra S. McCain</i>					DATE 12/31/2011	PHONE NUMBER 573.431.1069		EMAIL ADDRESS: st.joe.state.park@dnr.mo.gov			
SIGNATURE OF OWNER OR DESIGNEE APPROVING REPORT <i>Sandra S. McCain</i>					DATE 12/31/2011	PHONE NUMBER 573.431.1069		EMAIL ADDRESS st.joe.state.park@dnr.mo.gov			

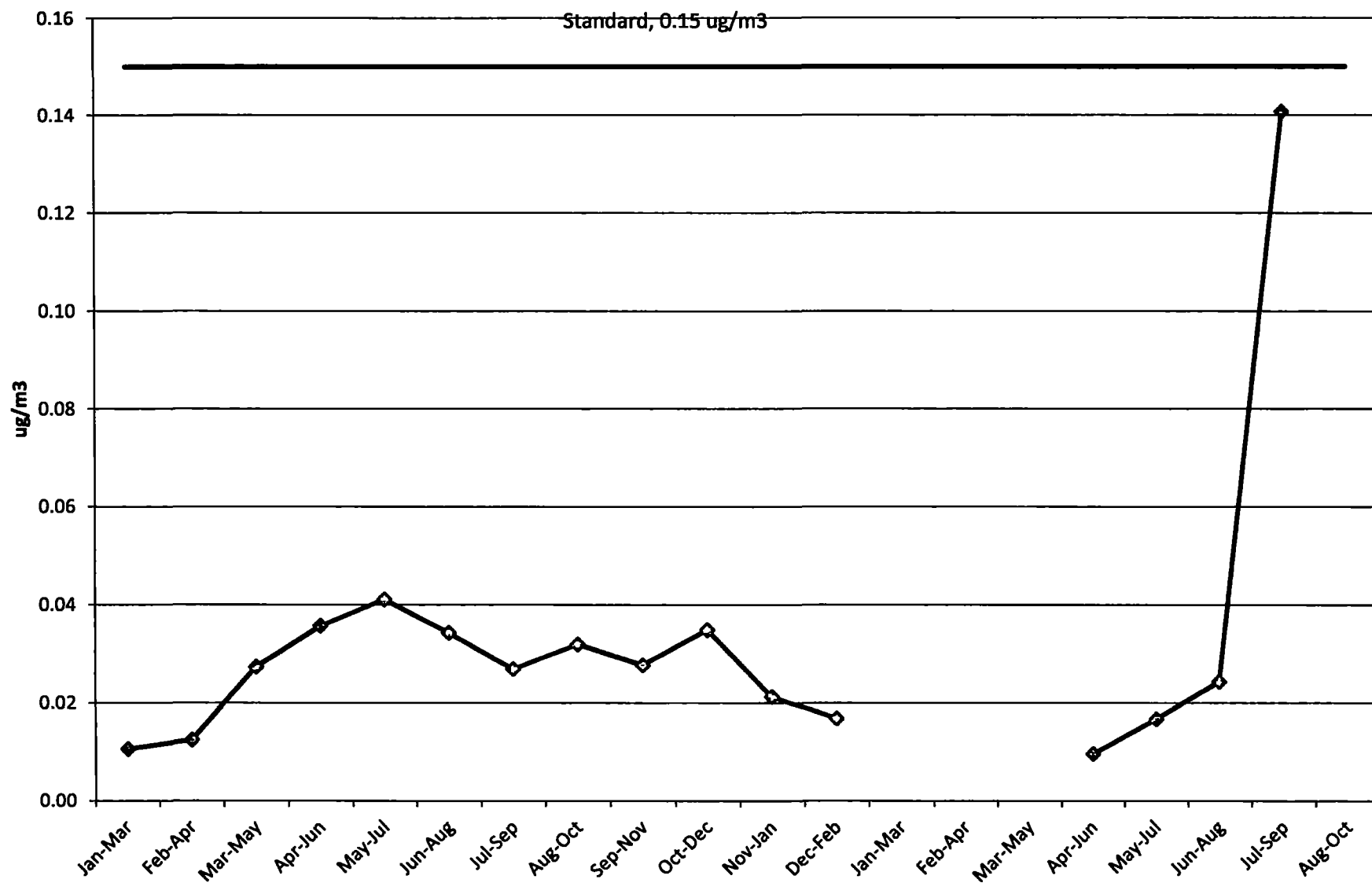
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St. Joe State Park 3-Month Rolling Average Lead Concentrations, Jan 2010-Sep 2011



SJSP Daily Average Lead Concentrations, ug/m3

